

***Marine Spatial Planning &
Traditional Navigation Users***

by

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Port Captain

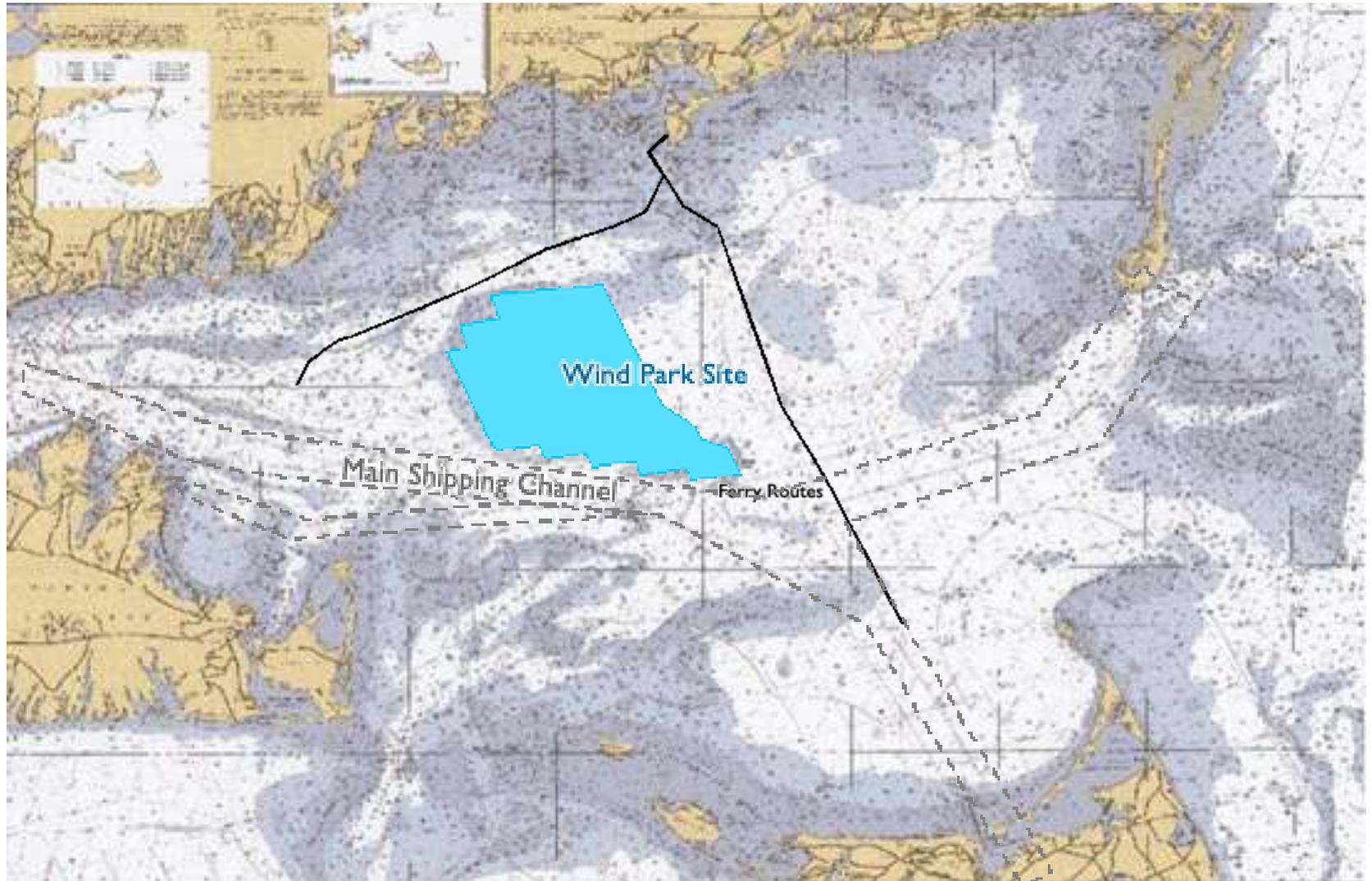
Nantucket Steamship Authority

May 6, 2010



Proposed Wind Park – Shipping Lanes – Ferry Routes

(Positions Approximate)



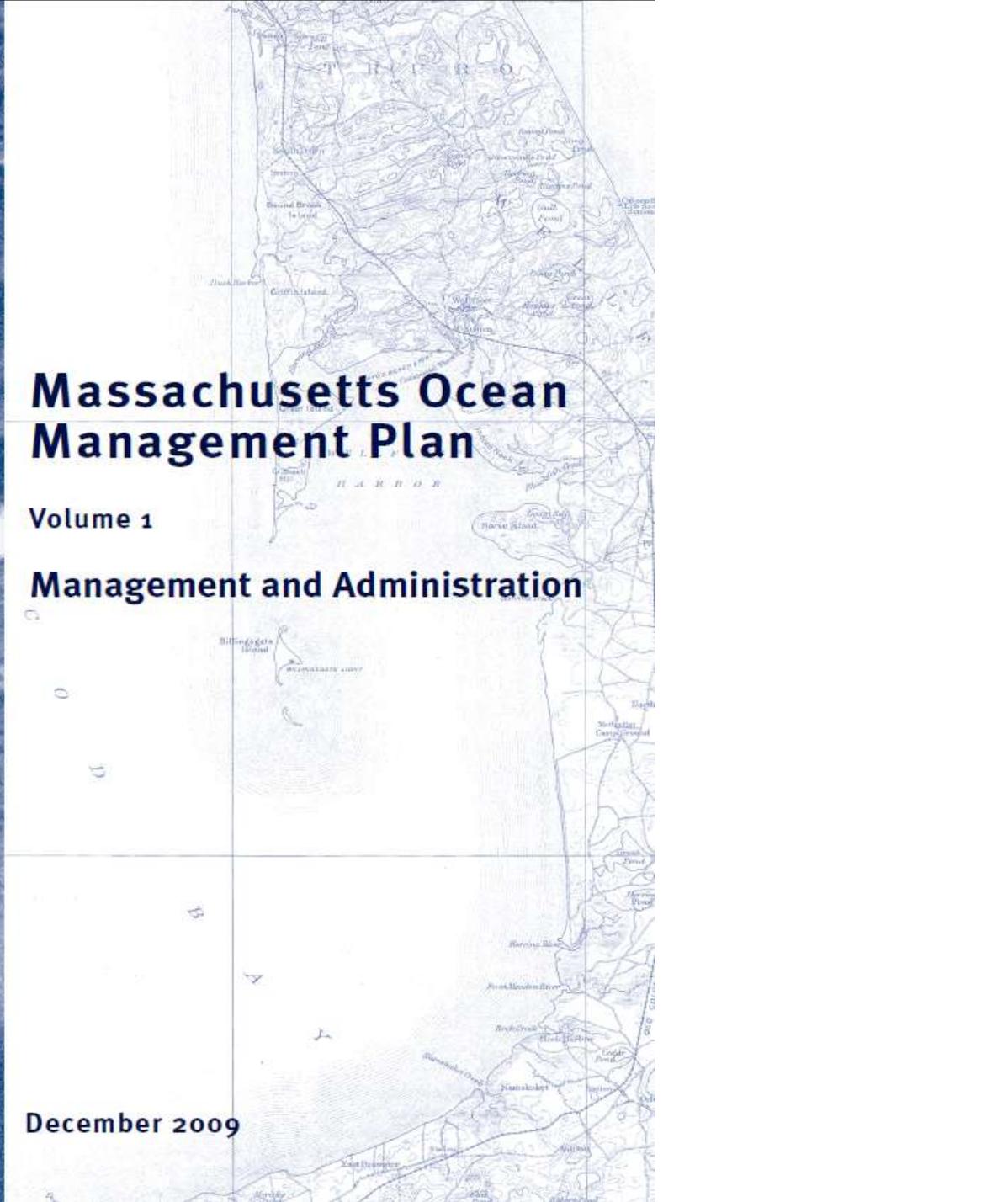
PROPOSED VIEW

Simulated view from Craigville Beach



Local New Yorker artist and illustrator Bob Staake made the cover of the popular magazine with a design that includes offshore wind turbines under tack by a whale-riding, lance-wielding Pilgrim.





Massachusetts Ocean Management Plan

Volume 1

Management and Administration

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Figure 1.1 The Massachusetts ocean management planning area



Massachusetts ocean management planning area¹

Bathymetry (depth in meters)¹

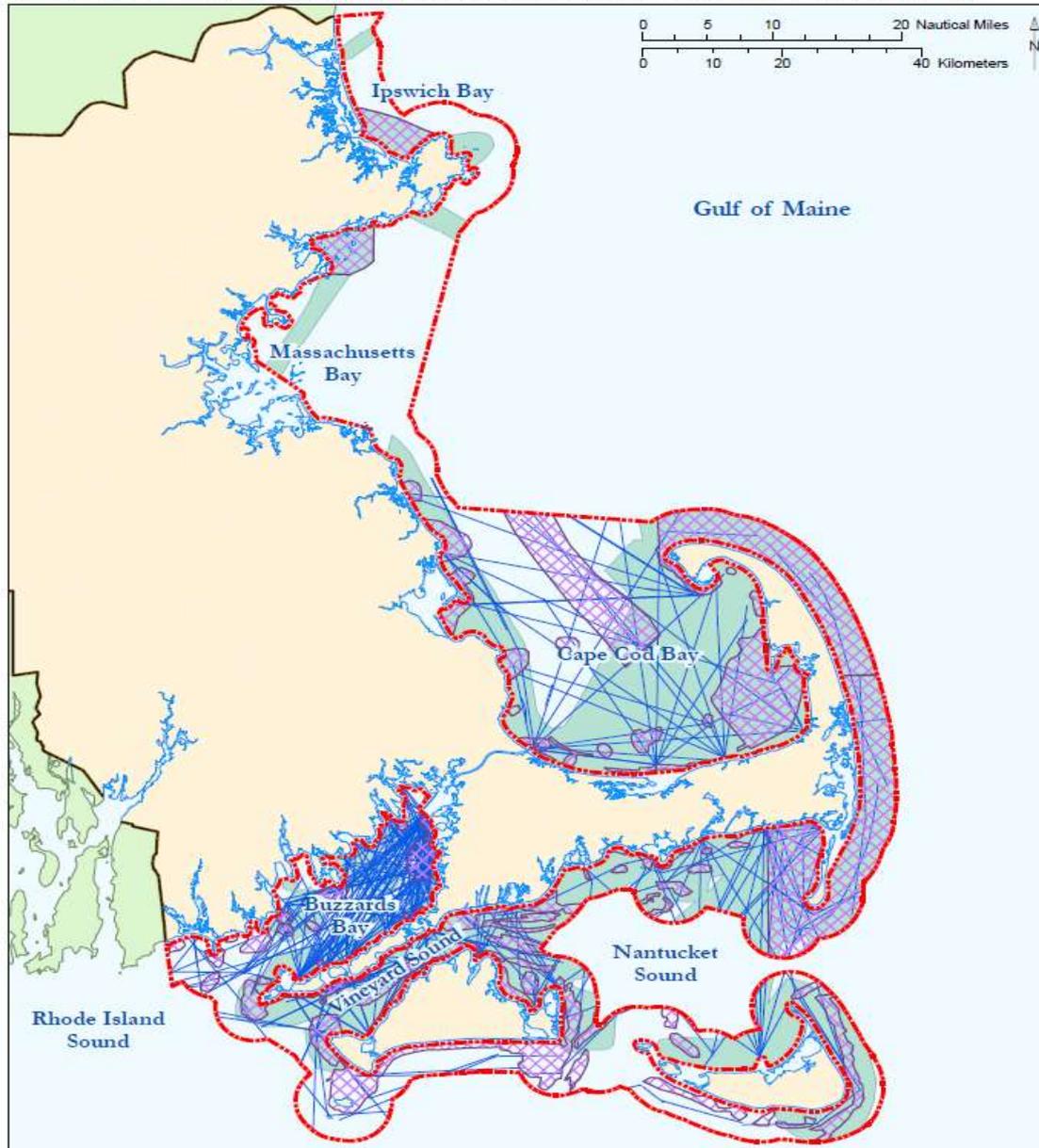
Above 15	25 to 40	90 to 200
15 to 25	40 to 90	Below 200

Data source: ¹Massachusetts Office of Coastal Zone Management.



Map coordinate system: North American Datum of 1983 (NAD83), Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters.

Figure 6.3 Recreational boating and fishing areas identified by a Massachusetts Marine Trades Association (MMTA) survey



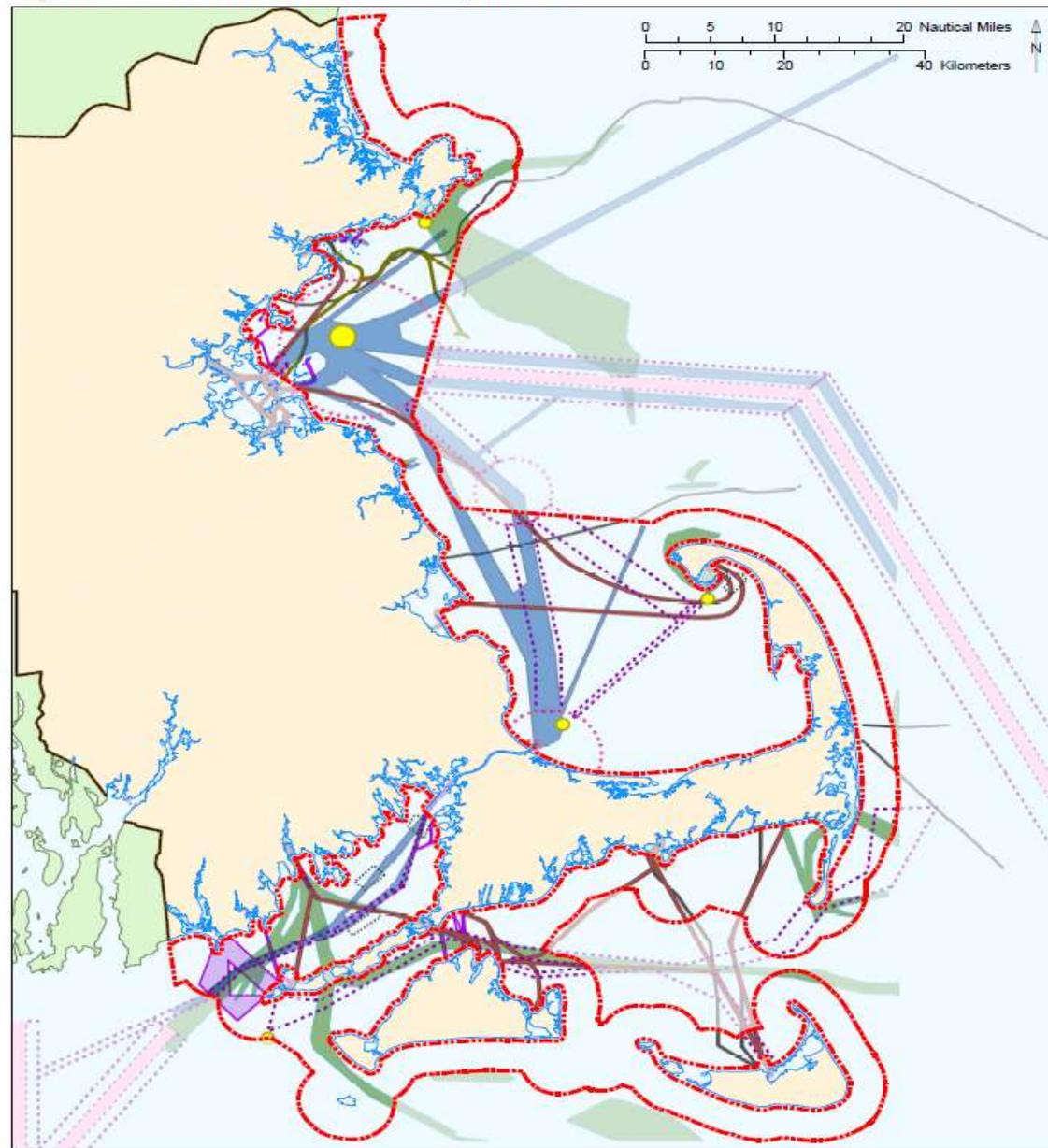
- - - Massachusetts ocean management planning area boundary¹
- Recreational boating area identified by MMTA survey of boaters²
- — — Recreational boating routes identified by MMTA survey of boaters²
- Recreational fishing area identified by MMTA survey of fishermen²

Data sources: ¹Massachusetts Office of Coastal Zone Management, ²Massachusetts Marine Trades Association.



Map coordinate system: North American Datum of 1983 (NAD83), Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters.

Figure 6.5 Infrastructure, navigation lanes, and transportation routes



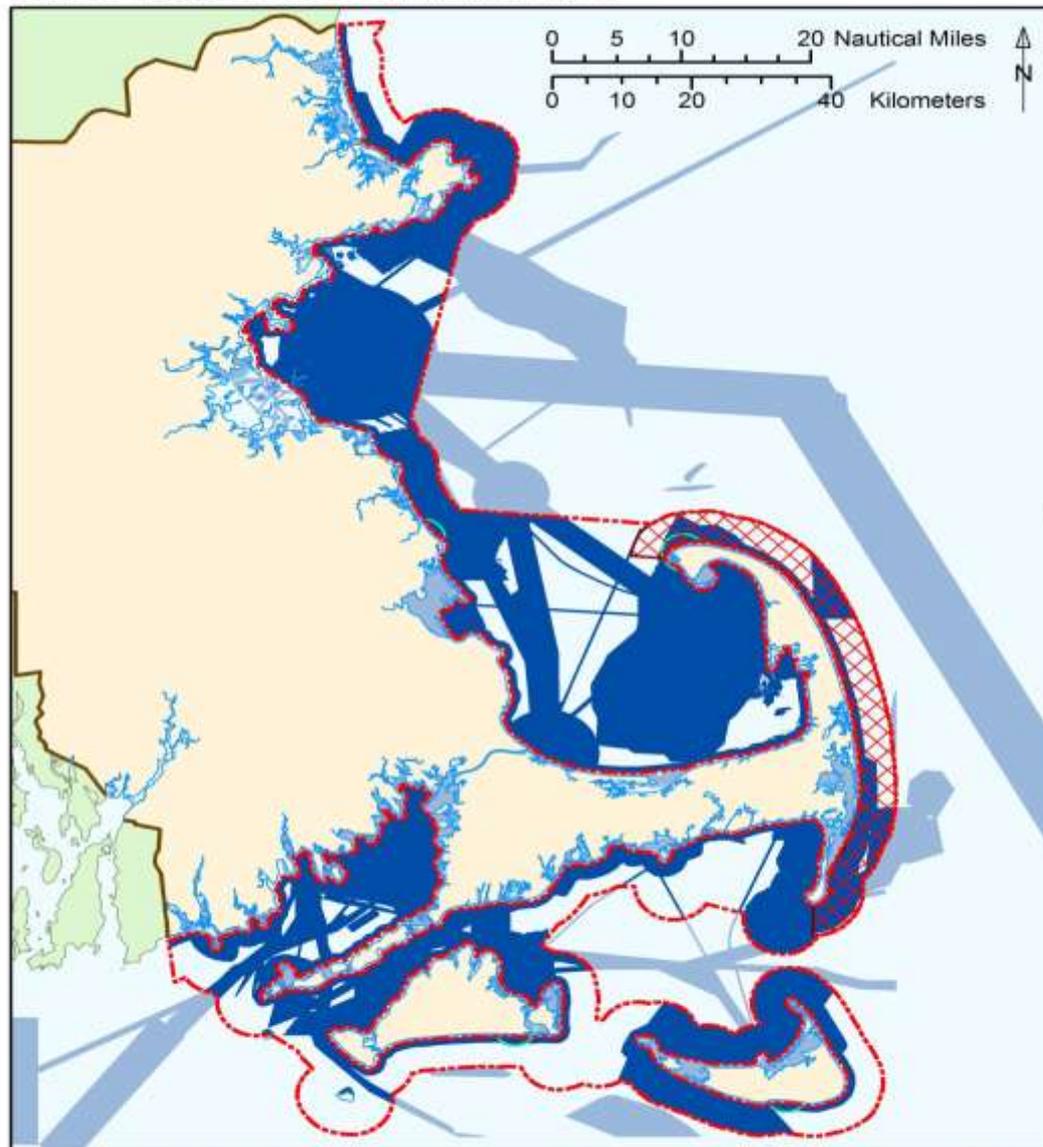
- - - Planning area boundary¹
- Anchorage area^{1,2,3}
- Automatic Identification System (AIS)^{4,5}
- Cable^{1,4}
- Cable area^{1,9}
- Ferry route^{5,8}
- Gas pipeline^{1,4}
- Pilot boarding area^{1,4}
- Precautionary area^{2,4}
- Separation zone^{2,9}
- Shipping lane^{1,4}
- Vessel Monitoring System (VMS)^{4,8}

Data sources: ¹Massachusetts Office of Coastal Zone Management, ²MassGIS, ³National Oceanic and Atmospheric Administration, ⁴Stellwagen Bank National Marine Sanctuary, ⁵Massachusetts Department of Transportation, ⁶National Marine Fisheries Service Northeast Regional Office.
⁸A mask has been applied so that data layers outside of the Massachusetts ocean management planning area appear lighter.



Map coordinate system: North American Datum of 1983 (NAD83), Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters.

Figure Appendix 3-9 Exclusionary criteria

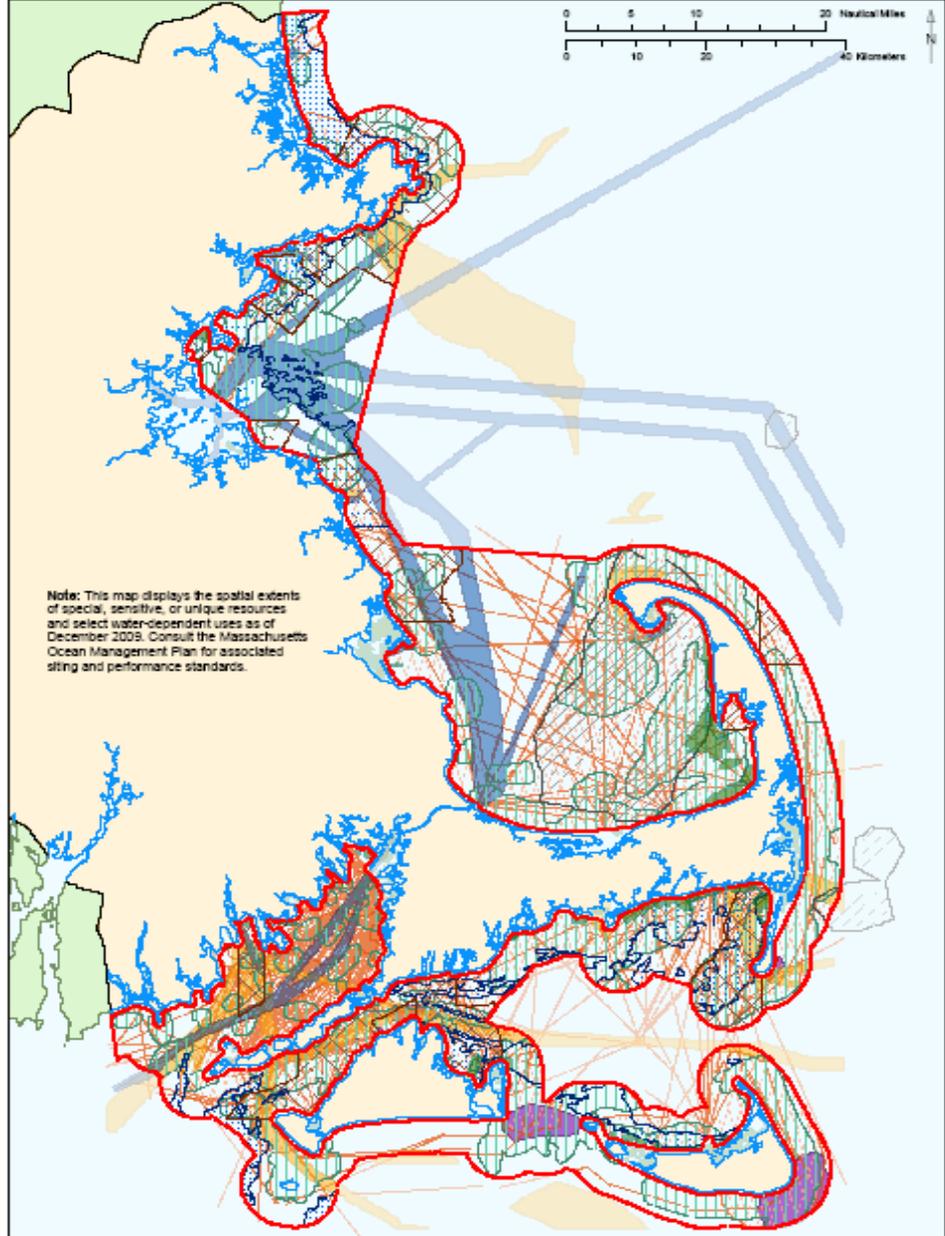


-  Planning area boundary
-  Prohibited area
-  Exclusionary criteria

Map coordinate system: North American Datum of 1983 (NAD83), Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters.



Figure 2-21 Commercial-scale tidal energy special, sensitive, or unique resources and existing water-dependent uses



	Massachusetts ocean management planning boundary	Commercial water-dependent uses?
	Commercial oceanic fishery, established by statute	Aquaculture
Navigation System (NS) area?	High value water-dependent uses?	Special-use ocean resource?
Commercial oceanic fishing fishery, established by statute	Non-fishery water-dependent uses?	Non-fishery water-dependent uses?
Naval Military System (NMS) area?	Non-fishery water-dependent uses?	Non-fishery water-dependent uses?
Commercial oceanic fishing area?	Non-fishery water-dependent uses?	Non-fishery water-dependent uses?
Commercial oceanic fishing area?	Non-fishery water-dependent uses?	Non-fishery water-dependent uses?

Map coordinate system: North American Datum of 1983 (NAD83), Massachusetts State Plane Coordinate System, Mainland Zone (FIPS zone 2001), meters.

Data sources: Massachusetts Office of Coastal Zone Management; (Hatteras Reef National Marine Sanctuary, National Marine Fisheries Service, Commonwealth Regional Office, Massachusetts Board of Fish and Game, Massachusetts Division of Marine Fisheries, Massachusetts Department of Environmental Protection, Massachusetts Coastal Community Program, National Oceanic and Atmospheric Administration (NOAA) National Coastal Community Program (NCCCP), 2008, in Biological Characteristics of the Outer Cape and National Marine Sanctuary Program (Geography, Topography, and Characteristics Assessment, Program R/C/2008-01) (Biology); Sea Grant Program for the National Marine Sanctuary Program, 1998, Spring 06, NOAA Technical Memorandum NMFS-FR-383.